# Description

## CASE WITH ELASTIC-SECURED END CAP

#### FIELD OF THE INVENTION

[0001] The present invention relates generally to cases for hold-ing business cards, notes, notepads, credit cards, and the like, and, more particularly, to cases that include spring-loaded, or elastically secured lids or covers.

#### BACKGROUND OF THE INVENTION

- [0002] A number of cardholder devices, cases, and related inventions are known in the art. Some of the known cases are configured to merely hold cards; others are designed to dispense cards. Some include hinged covers; others include spring-loaded covers. Examples of various types of cases disclosed in United States Patents are as follows:
- [0003] United States Patent No. 5,125,505 (Kurosaki) discloses a cardholder for holding a card. The holder includes a couple of springs, against which a card to be held is placed. The springs function to dispense the card from the case.
- [0004] United States Patent No. 4,792,058 (Parker) discloses a

dispenser for business or calling cards. This patented device includes a retracted ejector mechanism on the side of the case for dispensing the cards.

- [0005] United States Patent No. 3,970,129 (Tepfer) discloses a sales slip wallet. The drawing figures of this patent depict various embodiments of the wallet, all of which use elastic means to urge panels of the wallet into a closed position.
- [0006] United States Patent No. 3,688,896 (Newell) discloses a card case intended for carrying credit cards. The case includes a lid operatively arranged to be prevented from closing until all intended cards are replaced within the case.
- [0007] United States Patent No. 3,421,839 (Ward) discloses a container for air treating devices, which container includes two end caps, secured to one another by an elastic band to bias the two end caps toward one another, closing the container.
- [0008] United States Patent No. 2,737,312 (Hamlon) discloses a container having a lid, hinged to the container and biased toward a closed position by a rubber band secured to the bottom of the container.
- [0009] United States Patent No. 2,531,737 (Lyon, Jr.) discloses a container having a spring biased sliding closure.

- [0010] United States Patent No. 2,349,985 (Page) discloses a receptacle closure for a small container. The lid to the container is hinged, and an elastic band is secured to the underside of the lid and a sidewall of the container, arranged to urge closure of the lid onto the container.
- [0011] United States Patent No. 1,219,029 (Kell) discloses an early 20th century example of a spring closing receptacle.
- [0012] United States Patent No. 1,094,288 (Wick) discloses a matchbox having a spring-loaded cover.
- [0013] United States Patent No. 356,524 (Clement) is an 1887 patent that describes a cylindrically shaped holder for pens and pencils. The invention includes two balls, one at each end of the holder. The balls are connected to one another by an elastic band, urging them inwardly towards the body of the holder.
- [0014] Finally, United States Design Patent No. Des. 338,336 (Grant) discloses a card case having a hinged top.
- [0015] Despite the many examples of cases in the patent art, as yet no one has apparently invented or patented a case having the structure or function of the present invention.

## **SUMMARY OF THE INVENTION**

[0016] The present invention broadly comprises a case, including a housing having a hollow interior and a channel proxi-

mate a perimeter of the housing at two sides thereof, a first end cap fixedly secured to a first end of the housing, the first end cap having a channel proximate a perimeter thereof, a second end cap removably secured to a second end of the housing, the second end cap having a channel proximate a perimeter thereof, and an elastic band positioned within the channel of the housing, the channel of the first end cap and the channel of the second end cap, the elastic band operatively arranged to urge the second end cap into a retained position in engagement with the second end of the housing.

- [0017] A primary object of the invention is to provide a case for holding business cards and the like, which case, in a first embodiment, includes an end cap detachably secured to a housing of the case by an elastic band.
- [0018] Another object of the invention is to provide a case for holding business cards and the like, which case, in a second embodiment, includes two end caps detachably secured to a housing of the case by an elastic band.
- [0019] These and other objects, features and advantages of the invention will become readily apparent to one having ordinary skill in the art upon study of the following detailed description in view of the drawings and appended claims.

#### BRIEF DESCRIPTION OF THE DRAWINGS

- [0020] Figure 1 is a perspective view of the case of the invention;
- [0021] Figure 2 is a cross-sectional view of the case shown in Figure 1 taken generally along line 2-2 in Figure 1;
- [0022] Figure 3 is a perspective view of the case shown in Figure 1, except with the case open to expose its contents;
- [0023] Figure 3A is an exploded view of the case shown in Figure 1;
- [0024] Figure 4 is a view similar to that of Figure 3, but with end cap 14 rotated 90° to illustrate the interior compartments of end cap 14;
- [0025] Figure 4A is a perspective view of the case shown in Figure 1, but with band 18 removed, and end cap 14 rotated 180°;
- [0026] Figure 5 is a top view of the case of the invention shown in Figure 1, rotated such that end cap 14 is at the top of the drawing;
- [0027] Figure 6 is an end view of the case of the invention, taken generally along line 6-6 in Figure 5;
- [0028] Figure 7 is a cross sectional view of the case, taken generally along line 7-7 in Figure 5;
- [0029] Figure 8 is a perspective view of a second embodiment of

- the invention, shown with the case in an open position;

  [0030] Figure 8A is an exploded view of the case shown in Figure 8;
- [0031] Figure 9 is a cross-sectional view of a third embodiment of the invention (which third embodiment is not shown in perspective view), similar to the view shown in Figure 2, in which third embodiment, band 18 has been replaced by band 68;
- [0032] Figure 10 is a cross-sectional view of a fourth embodiment of the invention (which fourth embodiment is not shown in perspective view), similar to the view shown in Figures 2 and 9, but with bands 18 and 68, replaced by two separate bands 88 and 89; and,
- [0033] Figure 11 is a perspective view of a fifth embodiment of the invention, in this embodiment, the elastic band is located substantially outside the perimeter of the case.

### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0034] At the outset, it should be appreciated that like reference numbers on different drawing figures represent identical structural elements. It should also be appreciated that, while a number of different embodiments and variations of the present invention are shown in the various drawings, the invention as claimed is not intended to be lim-

ited to these specific embodiments, as the claims define a broader invention that can take many different shapes and structures. Also, the adjectives, "top", "bottom", "right", "left", and their derivatives, in the description herebelow, refer to the perspective of one facing the invention as shown in the figure under discussion. Finally, the present invention includes an elastic band or cord. In one embodiment, the band comprises a closed loop, preferably formed from a linear band whose terminal ends have been secured to one another; in another embodiment it comprises a single length of cord; and, in yet another embodiment it comprises two separate lengths of cord. In all embodiments, the cord is located proximate the perimeter of the case housing. In a preferred embodiment, the cord is not located in the hollow interior of the housing, so as not to interfere with the ability of the case to hold business cards and the like. It should also be appreciated that the case of the invention is designed to hold a variety of items, including, but not limited to, business cards, photographs, note pads, paper clips, computer and digital device memory cards, and a variety of other objects and articles.

[0035] Adverting now to the drawings, Figure 1 illustrates a first

embodiment of case 10 of the invention. Case 10 is seen to comprise housing 12, first end cap 16, and second end cap 14. In a preferred embodiment, first end cap 16 is fixedly secured to the housing, whereas second end cap 14 is detachably secured to the housing. More particularly, elastic band 18 circumscribes a channel in the two end caps and in the housing, and is operatively arranged to urge second end cap 14 into a closed position as shown in Figure 1. In the embodiment shown, end caps 14 and 16 are made of plastic, and housing 12 is made of aluminum, although the material of composition of the individual structural elements of the invention is not germane to the invention. The size and elasticity of band 18 is selected such that second end cap 14 may be pulled and removed a sufficient distance from the housing as to be able to insert and remove articles and objects into and out of the case, respectively.

[0036] Figure 2 is a cross-sectional view of the case taken generally along line 2-2 of Figure 1. This view illustrates how elastic cord 18 circumscribes the perimeter of the case. Cord 18 lies in a channel 26, which channel exists in second end cap as channel 26', first end cap 26'' and in alignment studs/fingers 22 as channel 26'', as better

shown in Figures 3, 3A and 4. The cord is located proximate the perimeter of the case, so as not to interfere with storage of articles in space 24 within the case.

[0037] Case 10 is shown in an open orientation in perspective view in Figure 3. In this view, end cap 14 has been pulled leftwardly, against the bias of elastic cord 18, to expose inner space 24 (shown in Figure 3A) of the case. Articles 20 are shown being held within the case. This view also shows alignment studs/fingers 22. The alignment studs/ fingers function to align and hold end cap 14 in contact with housing 12. In a first embodiment, the two alignment studs/fingers are fixedly secured to end cap 16, and also secured within through-bores 23 of housing 12, as shown in Figure 3A. Each alignment stud/finger includes a channel 26" for elastic cord 18. Thus it is seen that the studs/ fingers, with their respective channels 26", function to form channel 26 within the perimeter of housing 12. As seen in Figure 1, channel 26 is positioned both inside and partially outside the respective structural elements. For example, cord 18 is shown partially exposed with respect to end cap 14 in Figure 1, partially inside and partially outside of channel 26'.

[0038] Figure 3A is an exploded view of the case shown in Fig-

ures 1 and 3. This view shows that, in the first embodiment, cord 18 is formed in a closed loop, preferably formed by securing two terminal ends of a linear band to one another. This view also shows alignment studs/fingers 22 in more detail. The studs/fingers are shown to be semi-circular in cross-sectional shape, although this shape is not germane to the invention. The elongated studs/fingers are seen to be arranged to matingly engage through-bores 23 of housing 12. End cap 16 is seen to include inner space 24" which forms part of the interior of case 10. It should be appreciated by those having ordinary skill in the art that while a preferred embodiment comprises a pair of alignment study/fingers operatively arranged for traversing the entire length of through-bores 23, four shortened fingers/studs, each secured within a terminal end of through-bores 23, could be provided to achieve similar results.

[0039] In Figure 4 it is seen that second end cap 14 has been pulled leftwardly against the bias of elastic cord 18 and rotated 90° downwardly to expose inner space 24' and alignment receptacles 32. Alignment receptacles 32 are operatively arranged for accepting studs/fingers 22 therein and are disposed on either side of inner space 24'.

As can be seen more clearly in Figure 4a, which illustrates elastic cord 18 and second end cap 14 removed from the case and rotated 180°, alignment receptacles 32 and alignment studs/fingers 22 are complementary to one another such that second end cap 14 may be aligned and held in biased contact with housing 12 when the case is not in use. Alignment receptacles 32 while serving to align and secure the second end cap 14 to the housing are also provided for passing elastic cord 18 from channels 26" of the alignment studs/fingers 22 to channel 26' of the second end cap. Because articles 20 are held within the inner space of the holder and the first and second end caps, it is seen that damage thereto is avoided.

[0040]

In Figures 5 and 6, which illustrate a top view of the case and a view of the case taken generally along line 6–6 of Figure 5, it is seen that second end cap 14 comprises channel 26' for passing elastic cord 18 therethrough such that the second end cap may be urged against the housing. As shown in Figure 7, which is a view of the case taken generally along line 7–7 of Figure 5, it is seen that elastic cord 18 is passed along the sides of the case by means of channels 26" extending along studs/fingers 22. It should be appreciated by those having ordinary skill in

the art that while Figures 3A and 7 illustrate studs/fingers 22 as extending along the entire length of through-bores 23, fingers 22 may be configured to comprise four studs/fingers secured at the terminal ends of through-bores 23 such that elastic cord 18 is passed through the studs/fingers and then through through-bores 23.

[0041] While a preferred embodiment comprises detachable second end cap 14 and fixedly secured end cap 16, Figures 8-8A illustrate second embodiment 40 of the present invention, which embodiment comprises second end cap 44 and first end cap 46, each adapted to be detachably secured to housing 42 such that articles 50 may be held in inner space 45 and accessed from either end of the case. In this embodiment, it is seen that housing 42 comprises through-bores 43 for accepting fingers/studs 52 therein. Similar to the preferred embodiment described above, fingers/studs 52 each comprise channels 47" for passing elastic cord 48 therethrough and along the sides of the housing. Second end cap 44 and first end cap 46 are identical to one another and each comprise alignment receptacles 54 disposed on either side of inner space 45'. Alignment receptacles 54 each comprise a size and shape that is complementary to fingers/studs 52 such that the

end caps 44 and 46 may be aligned and properly secured upon the housing. End caps 44 and 46 also each comprise a channel 47' for passing elastic cord 48 therethrough. Hence, when the elastic cord is arranged with in the channels of the fingers/studs and the end caps about the perimeter of the case, the two end caps may be secured to the housing via the bias provided by the elastic cord.

[0042]

Finally, other embodiments of the case of the present invention are illustrated in Figures 9–11. In Figure 9, which illustrates a cross section of third embodiment 60, it is seen that the case could be configured to comprise a single linear elastic band arranged within channel 77. In this embodiment channel 77 comprises second end cap channel 77' and housing 72 comprises channels 77". Since first end cap 66 is adapted to be fixedly secured to housing 72, it may or may not comprise a channel for passing an elastic cord therethrough. Second end cap 74 is adapted to be detachably secured to housing 72. Housing 72 is adapted to comprise a pair of bores disposed on the sides of the housing for accepting alignment studs/fingers 70 therein. Alignment studs/fingers 70 each comprise a bore for passing and securing terminal ends 76 of the elastic band. The terminal ends of the elastic band may be secured within channel 77" for within the bore of fingers/
studs 70 by virtually any appropriate means including, but
not limited to: adhesives, staples, knots, etc. In Figure 9 it
is also seen that alignment studs/fingers 70 are provided
for aligning second end cap 74 upon the housing such
that elastic band 68 may be passed from the housing to
the second end cap. It should be appreciated by those
having ordinary skill in the art that alignment studs/fingers 70 may extend along the entire length of the bores
on the sides of housing 72 or may be configured to extend only along a portion of the length of the bores.

[0043]

In Figure 10, which is a cross section of fourth embodiment 80, it is seen that the case could be configured to comprise a pair of linear elastic bands 88 and 89 disposed within channel 98. In this embodiment first end cap 86 is fixedly secured to housing 92 and second end cap 94 is adapted to be detachably secured to the housing. More specifically, second end cap 94 is detachably secured to the housing via linear elastic bands 88 and 89. Linear elastic bands 88 and 89 each comprise a pair of terminal ends 95 and 96. Terminal ends 95 are secured within channel 97' of second end cap 94 and terminal ends 96 are secured within channels 97" of housing 92. The termi-

nal ends of the bands may be secured within channels 97" or the bores of finger/studs 90 by virtually any appropriate means available in the art, e.g., adhesives, staples, knots, etc. In Figure 10 it is also seen that housing 92 is adapted for securing fingers/studs 90, which align and secure second end cap 94 upon the housing such that the elastic bands 88 and 89 are passed from channels 97" to channels 97'.

In Figure 11, which is a perspective view of fifth embodiment 100, it is seen that the case may be configured for securing closed loop elastic band 104 within channel 105 about the outer perimeter of the case. In this embodiment, channel 105 comprises second end cap channel 105', holder channels 105", which are formed within the sides of holder 102, and channel 105", which is formed within the first end cap. Also, it should be appreciated that in this embodiment one of the first or second end caps may be detachable and the other fixed, or both configured to be detachable.

[0045] Thus, it is seen that the objects of the invention are efficiently obtained, although modifications and changes to the invention may be readily imagined by those having ordinary skill in the art, and these changes and modifica-

tions are intended to be within the scope of the claims.